

What is claimed is:

- [1] A liposome encapsulating a water-soluble substance in an internal cavity thereof, which has a particle size of 300 nm or less and contains a triglycerol.
- [2] A liposome encapsulating a water-soluble substance in an internal cavity thereof, which has a particle size of 200 nm or less and contains a triglycerol.
- [3] The liposome according to claim 1 or 2, wherein an encapsulation rate of the water-soluble compound in the internal cavity is 60% or higher.
- [4] The liposome according to claim 1 or 2, wherein an encapsulation rate of the water-soluble compound in the internal cavity is 70% or higher.
- [5] The liposome according to any one of claims 1 to 4, wherein the water-soluble substance is a water-soluble low molecular weight compound, a protein, a nucleic acid, a polysaccharide, and/or an indicator.
- [6] The liposome according to any one of claims 1 to 4, wherein the water-soluble substance is a water-soluble low molecular weight compound and a polysaccharide.
- [7] The liposome according to any one of claims 1 to 4, wherein the water-soluble substance is a water-soluble low molecular weight compound.
- [8] The liposome according to any one of claims 5 to 7, wherein the water-soluble low molecular weight compound is nedaplatin, cisplatin, carboplatin, gemcitabine, or Ara-C.
- [9] The liposome according to claim 5 or 6, wherein the polysaccharide is a chitosan derivative, or a polysaccharide having carboxyl group.
- [10] The liposome according to claim 9, wherein the polysaccharide having carboxyl group is carboxymethylcellulose, hyaluronic acid, chondroitin, or chondroitin sulfate.
- [11] The liposome according to any one of claims 1 to 10, wherein the triglycerol is triolein.
- [12] The liposome according to any one of claims 1 to 11, which contains a ligand and/or a water-soluble synthetic polymer.
- [13] The liposome according to any one of claims 1 to 11, which contains a ligand.
- [14] The liposome according to claim 12 or 13, wherein the ligand binds to a target cell or a target molecule.
- [15] The liposome according to any one of claims 12 to 14, wherein the ligand is an antibody or an antibody fragment.

[16] The liposome according to claim 12, wherein the water-soluble synthetic polymer is selected from the group consisting of polyalkylene glycol, polylactic acid, polyglycolic acid, polyvinylpyrrolidone, and a copolymer of vinylpyrrolidone and maleic anhydride.

[17] The liposome according to claims 12 or 16, wherein the water-soluble synthetic polymer is polyalkylene glycol.

[18] The liposome according to claim 16 or 17, wherein the polyalkylene glycol is polyethylene glycol.

[19] The liposome according to any one of claims 12 to 18, wherein the ligand and/or the water-soluble synthetic polymer binds only to an external surface of the liposome.

[20] A pharmaceutical composition containing the liposome according to any one of claims 1 to 19.

[21] An agent for diagnosis and/or therapeutic treatment of a cancer, which comprises the liposome according to any one of claims 1 to 19.